

# **Utah Weekly Pertussis Update**

2018 data, through MMWR week ending June 16, 2018 (MMWR week 24)

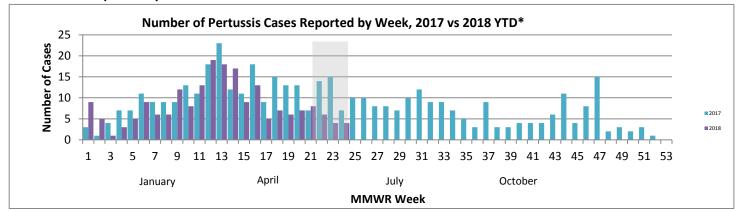
Data presented in this report are based on current data available and will be subject to change weekly.

#### **Data Summary**

Total number of cases reported, 2018 year-to-date		Utah Incidence rate, 2018 year-to-date (YTD) per 100,000	
(YTD)	200	person-years	14.2
Total number of cases reported 2017	439	Utah Incidence rate, 2017 per 100,000 person-years	14.6
Number of cases reported in past week	4	National Incidence rate*, 2016 per 100,000 person-years.	4.7
Total number of cases reported, through same time			
period 2017	259	2018 Hospitalizations	9
	<1		
Age groups with the highest rates	15 - 24	2018 Cases in infants <1 year	9

<sup>\*</sup>National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

#### Number of cases reported by week



<sup>\*</sup>Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

#### 2018 Year-to-Date Incidence Rates, By Age

	2018	2016	
Age (years)	Cases	population	Rate*
<1	9	51,162	38.2
1-4	18	202,288	19.3
5-14	50	520,247	20.9
15-24	64	491,359	28.3
25-34	11	448,845	5.3
35-44	19	410,933	10.0
45-54	13	314,060	9.0
55-64	1	291,159	0.7
65+	12	321,164	8.1
Unknown	3	-	-
Total	200	3,051,217	14.2

<sup>\*</sup> Rate is calculated per 100,000 person years.

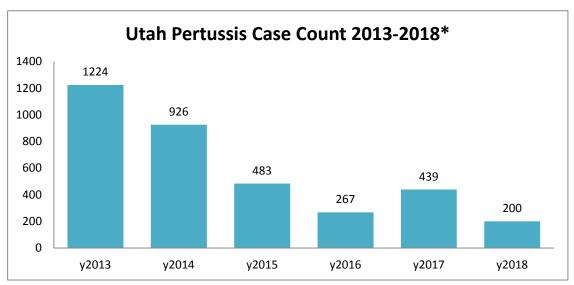
Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

### School Age Incidence Rates, 2018 Year-to-Date

	Age		2016	
Grade	(years)	<b>2018 Cases</b>	Population	Rate*
Preschool	3-4	8	100,804	17.2
Kindergarten	5	5	50,541	21.5
1	6	5	52,444	20.7
2	7	3	52,797	12.3
3	8	5	53,837	20.2
4	9	4	53,515	16.2
5	10	7	52,433	29.0
6	11	4	52,420	16.6
7	12	6	51,616	25.3
8	13	6	51,136	25.5
9	14	5	49,508	21.9
10	15	12	49,763	52.4
11	16	26	49,882	113.2
12	17	10	48,431	44.9

<sup>\*</sup> Rate is calculated per 100,000 person-years. School age incidence rates were calculated using the average age of a student in each grade. High incidence rates in 5th and 6th grade may be due to waining immunity.

### Utah Case Counts of Pertussis, 2013-2018\* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward.

<sup>\* 2018</sup> data includes pertussis cases reported year to date. 2013-2017 data reflects cases reported during the entire calendar year for each year.



# Incidence of Pertussis by Local Health Department, 2018 YTD

Land Hardth Barratan	2010 0	D-1-*
Local Health Department	2018 Cases	Rate*
Bear River	19	23.2
Central Utah	1	2.8
Davis County	23	14.6
Salt Lake County	89	17.2
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	4	3.8
Summit County	3	16.2
Tooele County	1	3.4
TriCounty	1	3.8
Utah County	34	12.5
Wasatch County	4	28.5
Weber-Morgan	21	17.6

<sup>\*</sup> Rate is calculated per 100,000 person-years using 2016 Utah population estimates.

